

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An arrangement in connection with a central lubrication system, the arrangement comprising:

a lubricant vessel,

a pump unit,

a control unit,

pipe systems,

a pressure monitor unit,

at least one feeder provided with at least one piston (5) which moves due to the influence of the pressure of a lubricant present in the pipe system/object to be lubricated, a movement monitor unit for each feeder in order to monitor the operation of the system, the lubricant being arranged to be pumped from the lubricant vessel along the pipe systems to the feeders and further to the objects to be lubricated, and

a junction part (4) located in the movement monitor unit outside a pressurized space, characterized in that wherein the junction part (4) is manufactured from a weakly magnetable material and it comprises:

a sensor part (3) which, in turn, comprises a fixed permanent magnet (2) in order to generate a magnetic field, and a sensor (1) for detecting movement of the magnetable piston (5), and

an electronics part (13) which processes a signal received from the sensor and produced as a result of a change in the magnetic field caused by the movement of the piston (5) with respect to the sensor part (3) [,] and forwards this processed signal to the control unit.

2. (Currently Amended) An arrangement as claimed in claim 1, characterized in that wherein the sensor (1) is a Hall sensor.

3. (Currently Amended) An arrangement as claimed in claim 2, ~~characterized in that~~ wherein the sensor (4) is an analogue Hall sensor.

4. (Currently Amended) An arrangement as claimed in claim 2 or 3, ~~characterized in that~~ wherein output (9) of the movement monitor unit is locking so that a detection mode of the piston remains in a memory.

5. (Currently Amended) An arrangement as claimed in claim 4, ~~characterized in that~~ wherein the locked detection mode of the output (9) of the movement monitor unit is releasable by cutting an operating voltage of the sensor (4) for a predetermined time.

6. (Currently Amended) An arrangement as claimed in ~~any one of claims 1 to 5~~ claim 1, ~~characterized in that~~ wherein the movement monitor unit is in its entirety located outside a pressurized space of the feeder.

7. (Currently Amended) An arrangement as claimed in ~~any one of claims 1 to 6~~ claim 1, ~~characterized in that~~ wherein the electronics part (13) comprises a voltage regulator (6), a detector (7) for detecting polarity of voltage, a microcontroller (8), an output circuit (9), indicator LEDs (10) as well as an amplifier part comprising a differential amplifier circuit (11) and low-pass filters (12).

8. (Currently Amended) An arrangement as claimed in claim 7, ~~characterized in that~~ wherein the output circuit (9) is a potential-free relay contact.

9. (Currently Amended) An arrangement as claimed in ~~any one of claims 1 to 8~~ claim 1, ~~characterized in that~~ wherein the plurality of movement monitor units of the central lubrication system are coupled in series.